

driving means for driving said membrane, wherein said membrane defining a position of rest, wherein it droops limply around said shank, and an opened position, wherein it assumes an essentially horizontal position, said membrane assuming said opened position under the influence of centrifugal force generated due to the rotation of said membrane by said driving means.

99
Cont
19. The umbrella device in accordance with claim 18, wherein said driving means comprises an electric motor.

20. The umbrella device in accordance with claim 18, wherein said shank defines a head and said driving means is located at the head of said shank, and wherein said shank is fixed against relative rotation.

21. The umbrella device in accordance with claim 20, wherein said driving means comprises an electric motor.

22. The umbrella device in accordance with claim 18, further comprising:
means for clamping said membrane to said shank, said means for clamping comprising two disks fixed against relative rotation with respect to said driving means.

23. The umbrella device in accordance with claim 18, wherein said driving means comprises a pneumatic drive.

24. The umbrella device in accordance with claim 18, wherein the energy supply for said driving means is received in said shank.

25. The umbrella device in accordance with claim 18, wherein said membrane has a pagoda-shaped cut-out shape, matched to specific influencing variables.

26. The umbrella device in accordance with claim 18, further comprising:

ballasting, and wherein said membrane is provided with said ballasting.

27. The umbrella device in accordance with claim 26, wherein said membrane is provided with one of: radially, annularly, and radially and annularly arranged cords as said ballasting.

28. The umbrella device in accordance with claim 26, wherein said membrane is provided with additional masses as ballasting on its outer circumference in accordance with one of: a cord at the edge, individual weights, and doubling of said membrane.

29. The umbrella device in accordance with claim 18, wherein said membrane has a double-layered shape in cross section.

30. The umbrella device in accordance with claim 18, wherein said membrane has a flat, pillow-like shape.

31. The umbrella device in accordance with claim 30, wherein said pillow-like membrane is divided into one of: radially, annularly, and radially and annularly arranged air chambers.

32. The umbrella device in accordance with claim 31, further comprising:

a blower, and wherein said air chambers are connected with said blower.

33. The umbrella device in accordance with claim 32, wherein said air chambers are connected with said driving means, and wherein said driving means comprises a pneumatic device.

34. The umbrella device in accordance with claim 18, wherein in the rest position said membrane can be charged with compressed air.